Approved Fee Release 2003/02/27 CIA-RDP81B00879R001000130133-4

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MEMORANDUM FOR THE RECORD:

SUBJECT: Fuel/Altitude Computer Program

In working sessions between OXCART representatives, and Automation representative, on 26 and 27 March 1964, the following actions were agreed upon:

1. Basically, program will compute altitude and/or ZAB. Several options will be available for computations, insuring that enough information is given for an accurate solution, and too much information is not given resulting in a partial solution that the computer will not accept as correct. Inputs/outputs may include the following:

Given Factors Solution

- a. At a given or computable position
 - (1) Altitude, gross
 weight ZAB
 - (2) %AB Altitude
 - (3) Altitude %AB Gross Weight
- b. Other solutions with variable combinations of unknowns may be available.
- 2. Additional fuel used in "step" climbs/descents from one profile to another would be ignored, inasmuch as less than 50 pounds would be involved. Upon receiving instructions to utilize different profile (%AB), computer will immediately compute fuel and altitude for the new profile, printing same on next line entry.

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- 3. Computer print out will depict %AB, not as pilot instructions, but as an aid to Mission Planners, in necessary replanning situations.
- 4. Profiles available will be 60 through 100%, in 5% increments, with corresponding altitude factors vs. gross weight. Any profile that falls between these increments will be computed by utilizing the next higher profile, e.g., 66% would use 70% profile. This will provide, in some instances, a small pad in fuel computations.
- 5. Computer limits will be 60% (low) and 100% (high) together with applicable altitudes. If a problem is given that is not solvable within these limits, the computer will reject the problem and will advise which instruction is not feasible.
- 6. All turns will be computed using 100% profile, with no gain in altitude due to lighter gross weight. This is an interim solution, and a better instruction may be presented later.
- 7. Working sessions between OXCART and Automation personnel will be held frequently to exchange ideas and insure that common goals are reached with a minimum of wasted effort.

Major USAF OXC/OSA

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Distribution:

#1 - OXC/OSA

#2 - D/FA/OSA

#3 - AUTO/OSA

#4 - RB/OSA

#5 - Hold Back